ENVIRONMENTAL CHEMISTS

Date of Report: 05/26/99 Date Received: 05/19/99

Project: Metro KC Comp, PO# M61999 Date Samples Extracted: 05/21/99 Date Extracts Analyzed: 05/21/99

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID		Chromium	Copper	<u>Nickel</u>	Zinc
M61999		1.1	1.1	1.3	0.15
Method Blar	ık .	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 05/26/99 Date Received: 05/19/99

Project: Metro KC Comp, PO# M61999

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 905057-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.46	0.47	2	0-20
Copper	mg/L (ppm)	0.51	0.53	4	0-20
Nickel	mg/L (ppm)	0.38	0.39	3	0-20
Zinc	mg/L (ppm)	0.07	0.09	25a	0-20

Laboratory Code: 905057-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recover	ry % Recover	y Acceptance	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	0.46	102	95	80-120	7
Copper	mg/L (ppm)	5	0.51	99	95	80-120	4
Nickel	mg/L (ppm)	10	0.38	104	95	80-120	9
Zinc	mg/L (ppm)	5	0.07	107	100	80-120	7

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recov	ery % Recov	ery Acceptanc	e	
Analyte	Units	Level	LCS	LCSI) Criteria	RPD	
Chromium	mg/L (ppm)	5	97	96	80-120	1	
Copper	mg/L (ppm)	5	95	93	80-120	2	
Nickel	mg/L (ppm)	10	100	102	80-120	2	
Zinc	mg/L (ppm)	5	100	106	80-120	6	

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.. 3012-16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 SAMPLE CHAIN OF CUSTODY Send Report To:/ no Works Contact Genela Thompsos Company__ Address 628 City, State, Zip Phone # (206) FAX # (306) 382-4309 SITE NO. PROJECT NAME PURCHASE ORDER # m 61929. SAMPLERS (signature) PROJECT LOCATION 3200 6th Are S. SAMPLE DISPOSAL INFORMATION Dispose after 30 days with 7 Please Coll Return Samples Call for Instructions Date/Time Type of # of Lab Analyses Sample # Sampled Sample Jars Sample # Requested m61999 12.70 5-18-99 HZO 0[Ce Ni Zw

SIGNATURE PRINT NAME COMPANY Date Time

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Received by:

FORMS/COC

05/11/99

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 26, 1999

DUPLICATE COPY

INVOICE #99ACU0526-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro KC Comp, PO# M61999: Results of testing requested by Gerry Thompson for material submitted on May 19, 1999.

1 water sample analyzed for	
Chromium, Copper, Nickel, and Zinc	
using Method 6010 @ \$80 per sample \$	80.00
[발문 문화] [호호, 조명회 보다 조회의 사회의 사회의 (시간) [시간] [인터트 사용 :	
50% rush surcharge for 3-day turnaround	40.00
지역 병원 이번에 대한 교통도 발견되었습니다고 그리고 그리고 있다. 그리는	
Amount Due\$	120.00

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 26, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 19, 1999 from your Metro KC Comp, PO# M61999 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0526R.DOC